

AMENDMENTS TO THE CLAIMS:

Claim 1. (Currently amended) A lock apparatus for attaching a container member to a support member openably, the lock apparatus comprising:

an operation handle;

a spring ~~pair of springs~~, which is ~~are~~ movably supported by the container member;

a ~~pair of~~ slide pin ~~pins~~, which is ~~are~~ urged in a direction of a lock hole ~~directions of lock holes~~ defined on the support member by the spring ~~springs~~, respectively; and

a ~~pair of~~ cam member ~~members~~ to which a rear end portion ~~portions~~ of the slide pin ~~is~~ pins are fitted, respectively, to urge the ~~each~~ slide pin to project and retract; and

an O-ring in a containing groove of the cam member, wherein:

when the operation handle is operated in a swing manner, a front end portion of the ~~each~~ slide pin is retracted from the ~~each~~ lock hole of the support member against pressure of the ~~each~~ spring; and

~~engagement holes are defined on opposed surfaces of each front end portion of the cam member having a cylindrical portion;~~

~~each rear end portion of the slide pin is formed in a bifurcated structure comprising elastic pieces; and~~

~~each of said elastic pieces comprises a protrusion for detachably engaging with each of said engagement holes~~

the containing groove communicates with a cam groove on the cam member.

Claim 2. (Currently amended) The lock apparatus according to claim 1, wherein the rear end portion ~~portions~~ of the slide pin ~~is~~ pins are connected to the cam member ~~members~~ to be

swingable.

Claim 3. (Currently amended) The lock apparatus according to claim 23 †, further comprising:

a stopper piece between the elastic pieces of the each slide pin; and

an elastic contact piece, for elastically contacting with the stopper piece, on a surface of the each cam member, which corresponds to the stopper piece.

Claim 4. (Currently amended) The lock apparatus according to claim 3, wherein a rib wall for preventing erroneous assembly on an inner side surface of the each cam member, which is opposed to the elastic contact piece of the each cam member.

Claim 5. (Currently amended) The lock apparatus according to claim 1, further comprising:

an outer cylindrical member continuously formed on one of the operation handle and the slide pin; ~~and, wherein the an O-ring, which~~ slide-contacts with an the outer cylindrical member and a the cylindrical portion of the cam member simultaneously.

Claim 6. (Currently amended) The lock apparatus according to claim 5, wherein the cylindrical portion of the cam member comprises the a containing groove to which the O-ring is attached.

Claim 7. (Original) The lock apparatus according to claim 6, wherein the containing

groove is formed in a recessed shape to isolate the O-ring.

Claim 8. (Currently amended) The lock apparatus according to claim 6, further comprising:

~~a cam groove on the cylindrical portion of the cam member; and~~
a projected portion on the outer cylindrical member,
wherein the projected portion moves in the cam groove; and
the cam containing groove is on the cylindrical portion of ~~communicates with the cam~~
member groove.

Claim 9. (Currently amended) The lock apparatus according to claim 5, wherein:

the outer cylindrical member comprises a bottom surface; and
the cam groove is on one of the cylindrical portion of the cam member and the outer
cylindrical member;

the lock apparatus further comprises:

~~a cam groove on one of the cylindrical portion of the cam member and the~~
~~outer cylindrical member; and~~

a projected portion on the other of the cylindrical portion of the cam
member and the outer cylindrical member, wherein:

the projected portion moves in the cam groove; and

the projected portion and the cam groove are in a space blocked by the O-ring.

Claim 10. (Currently amended) A lock comprising:

a cam comprising pair of cams that ~~each comprise~~ a pair of engaging holes;
a ~~pair of~~ slide pin pins ~~each~~ comprising a bifurcated structure comprising elastic pieces that each comprise projections that each engage a corresponding one of said pair of engaging holes; and
an O-ring in a containing groove on the cam, wherein the containing groove communicates with a cam groove in the cam.

Claim 11. (Currently amended) The lock of claim 10, wherein said pair of engaging holes are provided on opposing surfaces of a cylindrical portion of ~~each of~~ said ~~pair of~~ cam ~~cams~~.

Claim 12. (Currently amended) The lock of claim 10, wherein ~~at least one of~~ said ~~pair of~~ slide pin pins is swingably connected to ~~one of~~ said cam ~~pair of~~ ~~cams~~ by the engagement of said projection with said corresponding one of said pair of engaging holes.

Claim 13. (Currently amended) The lock of claim 10, wherein ~~at least one of~~ said ~~pair of~~ slide pin pins further comprises a stopper between said elastic pieces.

Claim 14. (Currently amended) The lock of claim 13, wherein ~~a corresponding one of~~ said cam ~~pair of~~ ~~cams~~ further comprises an elastic contact for contacting said stopper.

Claim 15. (Currently amended) The lock of claim 14, wherein ~~at least one of~~ said cam ~~pair of~~ ~~cams~~ further comprises a rib wall on an inner side surface and opposing said elastic contact.

Claim 16. (Currently amended) The lock of claim 10, further comprising:

a handle; and

~~an O-ring,~~

wherein one of said handle and ~~at least one of said pair of slide pin pins~~ comprises an outer cylindrical member, and

wherein said O-ring simultaneously, slidably contacts said outer cylindrical member and a cylindrical portion of ~~a corresponding one of said cam pair of cams.~~

Claim 17. (Currently amended) The lock of claim 16, wherein said cam ~~corresponding one of said pair of cams~~ further comprises the a containing groove on said cylindrical portion that receives said O-ring.

Claim 18. (Previously presented) The lock of claim 17, wherein said containing groove is recessed.

Claim 19. (Currently amended) The lock of claim 17, wherein said cam ~~corresponding one of said pair of cams~~ further comprises the a cam groove on said cylindrical portion that communicates with said containing groove, and wherein said outer cylindrical member comprises a projection received by said cam groove.

Claim 20. (Currently amended) The lock of claim 16, wherein:

said outer cylindrical member comprises a bottom surface;

one of said cylindrical portion of said cam ~~corresponding one of said pair of cams~~ and

said outer cylindrical member ~~further~~ comprises ~~the~~ a cam groove; and

the other of said cylindrical portion of said cam ~~corresponding one of said pair of~~
~~cams~~ and said outer cylindrical member further comprises a projection received by said cam
groove such that said projection is blocked by said O-ring.

Claim 21. (New) The lock of claim 12, wherein said slide pin swings about an axis that is
substantially perpendicular to an elongate axis of said slide pin.

Claim 22. (New) The lock apparatus of claim 1, wherein engagement holes are defined
on opposed surfaces of a front end portion of the cam member having a cylindrical portion.

Claim 23. (New) The lock apparatus of claim 22, wherein the rear end portion of the
slide pin is formed in a bifurcated structure comprising elastic pieces.

Claim 24. (New) The lock apparatus of claim 23, wherein each of said elastic pieces
comprises a protrusion for detachably engaging with each of said engagement holes.

Claim 25. (New) A lock apparatus for attaching a container member to a support member
openably, the lock apparatus comprising:

an operation handle;

a spring which is movably supported by the container member;

a slide pin which is urged in a direction of lock holes defined on the support member
by the spring; and

a cam member to which a rear end portion of the slide pin is fitted to urge the slide pin to project and retract, wherein:

when the operation handle is operated in a swing manner, a front end portion of the slide pin is retracted from a lock hole of the support member against pressure of the spring;

engagement holes are defined on opposed surfaces of a front end portion of the cam member having a cylindrical portion;

a rear end portion of the slide pin is formed in a bifurcated structure comprising elastic pieces;

each of said elastic pieces comprises a protrusion for detachably engaging with said engagement holes;and

rotation of said slide pin with respect to the cam member disengages the protrusions from the engagement holes.

Claim 26. (New) A lock comprising:

a cam that comprises a pair of engaging holes; and

a slide pin comprising a bifurcated structure comprising elastic pieces that each comprise projections that each engage a corresponding one of said pair of engaging holes, wherein rotation of the slide pin with respect to the cam disengages the projections from the engagement holes.